Search Results - Record(s) 1 through 2 of 2 returned.

1. Document ID: JP 03047097 A

Entry 1 of 2 File: JPAB Feb 28, 1991

PUB-NO: JP403047097A

DOCUMENT-IDENTIFIER: JP 03047097 A

TITLE: HYBRIDIZATION METHOD, GENE MUTATION DETECTION USING SAME AND APPARATUS THEREFOR

PUBN-DATE: February 28, 1991

INVENTOR-INFORMATION:

NAME

TOKITA, JIRO

NAGAI, KEIICHI

TOKINAGA, DAIZO

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI LTD	N/A

APPL-NO: JP01178933

APPL-DATE: July 13, 1989

INT-CL (IPC): C12Q 1/68; C12M 1/00; G01N 27/447

ABSTRACT:

PURPOSE: To accomplish higher hybridization reaction rate by such a means that a nucleic acid probe is fixed in an electrophoresis carrier, and a nucleic acid sample is allowed to migrate into said carrier by electrophoresis to make a hybridization.

CONSTITUTION: When gene mutation is to be detected using a nucleic acid probe and taking advantage of the hybridization reaction of a nucleic acid sample, the probe is fixed in an electrophoresis carrier and the nucleic acid sample is allowed to migrate into said carrier by electrophoresis to make a hybridization reaction. Thence, the fraction of said sample which has not been bound to the nucleic acid probe is made to migrate through electrophoresis and removed from said carrier, thus detecting gene mutation. In this method, such a process as to warm the electrophoresis carrier may be added after the hybridization reaction.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Image

2. Document ID: JP 03047097 A

Entry 2 of 2 File: DWPI Feb 28, 1991

DERWENT-ACC-NO: 1991-105680
DERWENT-WEEK: 199115

TITLE: Hybridisation used for detecting gene variant - comprises immobilising nucleic acid probe on electrophoretic carrier and transferring nucleic acid sample to carrier

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PRIORITY-DATA:
1989JP-0178933 July 13, 1989

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 03047097 A	February 28, 1991	N/A	000	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
JP03047097A	July 13, 1989	1989JP-0178933	N/A

INT-CL (IPC): C12M 1/00; C12Q 1/68; G01N 27/44

ABSTRACTED-PUB-NO: JP03047097A
BASIC-ABSTRACT:

Hybridisation of a nucleic acid sample comprises hybridising of nucleic acid probe and nucleic acid sample. The nucleic acid probe is immobilised to an electrophoretic carrier, and the nucleic acid sample is transferred to the electrophoretic carrier by electrophoresis.

Also claimed is detection of a gene variant by using the hybridisation reaction. Then the nucleic acid sample not bonded with the nucleic acid probe is transferred by electrophoresis from the electrophoretic carrier to remove it.

Further claimed is a gene variant detecting appts. using the hybridisatio n reaction which has an electrophoretic carrier on which a nucleic acid probe for hybridisation of the nucleic acid sample is immobilised, a direct current voltage adding means to the nucleic acid probe immobilised electrophoretic carrier via anodic electrolyte and cathodic electrolyte, and a measuring means of fluorescence or light absorption in the electrophoretic carrier or in the anodic electrolyte.

USE/ADVANTAGE - Sample of a DNA fragment may be transferred in an electrophoretic carrier automatically and the hybridisation reaction is rapid. Non binding or weakly binding DNA sample may be removed easily without washing. A high rate and automatic gene variant detecting method may be effected. By concn. of the flurescent substance or pigment as a labelled cpd., the sensitivity of measurement may be increased.

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: HYBRID DETECT GENE VARIANT COMPRISE IMMOBILISE NUCLEIC ACID PROBE ELECTROPHORESIS CARRY TRANSFER NUCLEIC ACID SAMPLE CARRY

DERWENT-CLASS: B04 D16 S03 S05

CPI-CODES: B04-B04A1; B11-C07B3; B11-C08D1; B12-K04; D05-H09; D05-H12;

EPI-CODES: S03-E03X; S03-E14H; S05-C09;

CHEMICAL-CODES:
Chemical Indexing M1 *01* Fragmentation Code M423 M424 M740 M750 M903 N102 Q233 V753
Chemical Indexing M1 *02* Fragmentation Code M423 M424 M740 M781 M903 N102 P831 Q233 V753 V802 V810 Chemical Indexing M6 *03* Fragmentation Code M903 P831 Q233 R514 R515 R521 R528 R533 R624 R625 R627 R639